

# APM-007AV

## SERVICE MANUAL



*US Model  
Canadian Model  
AEP Model  
UK Model  
E Model*

### SPECIFICATIONS

#### Amplifier section

Power output	7.7W + 7.7W (Peak) (with the supplied ac power adaptor) 3.5W + 3.5W (Peak) (with the internal batteries)
Input	Stereo miniplug Impedance 150 ohms
Standby circuit	Operation voltage: 2 mV

#### Speaker section

System	Full-range 35 cm <sup>2</sup> (5.43 in <sup>2</sup> ) APM unit, magnetically shielded design
Nominal impedance	4 ohms
Sensitivity	87 dB/W/m
Power handling capacity	Nominal 12.5W Maximum 25W

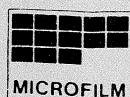
#### General

Power requirements	6-9V dc four IEC designation R14 batteries (size C) per unit DC IN 6V-9V Jack accepts: supplied ac power adaptor for ac power source optional Sony DCC-120 car battery cord for use with 12V car battery
Battery life	Approx. 10 hours with Sony SUM-2(NS) New Super batteries
Dimensions	Approx. 96 × 145 × 101 mm (w/h/d) (3 7/8 × 5 3/4 × 4 inches) incl. projecting parts and controls
Weight	Approx. 2,080 g (4 lb 9 oz) (two speakers) incl. batteries, not incl. other accessories

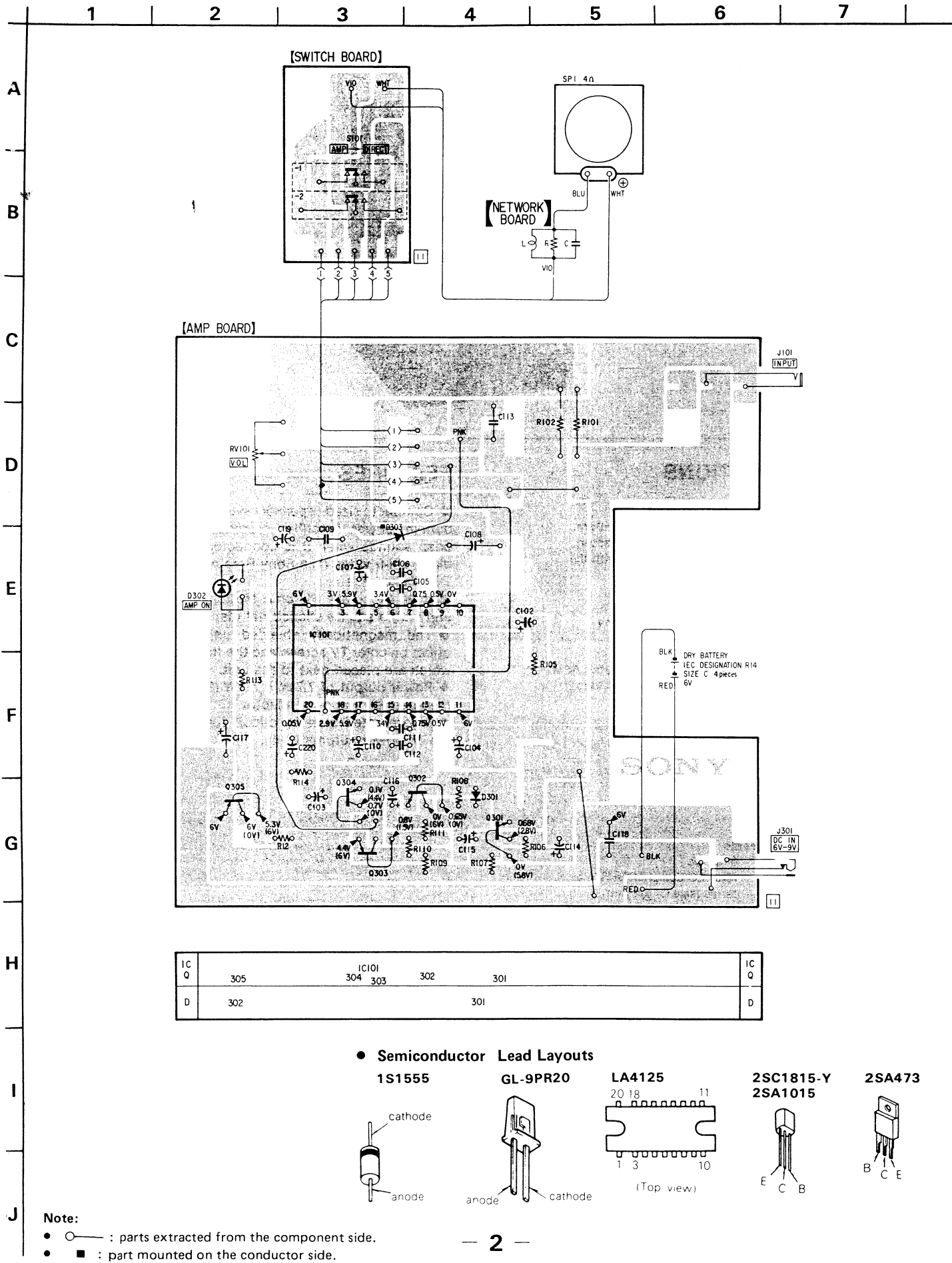
### FEATURES

- Compact sized speaker system with a built-in power amplifier reproduces clear, crisp sounds when it is connected to a CD player, hi-fi video (like Sony Beta hi-fi video), TV, Walkman, etc.
- APM (Accurate Pistonic Motion) speaker unit with a square shaped flat diaphragm.
- The magnetically shielded unit has no effect on color TV screen and the floppy disks which are placed next to the unit.
- Power output of 7.7W + 7.7W (Peak) with the supplied ac power adaptor.
- Incorporated standby circuit turns on/off the dc power automatically.

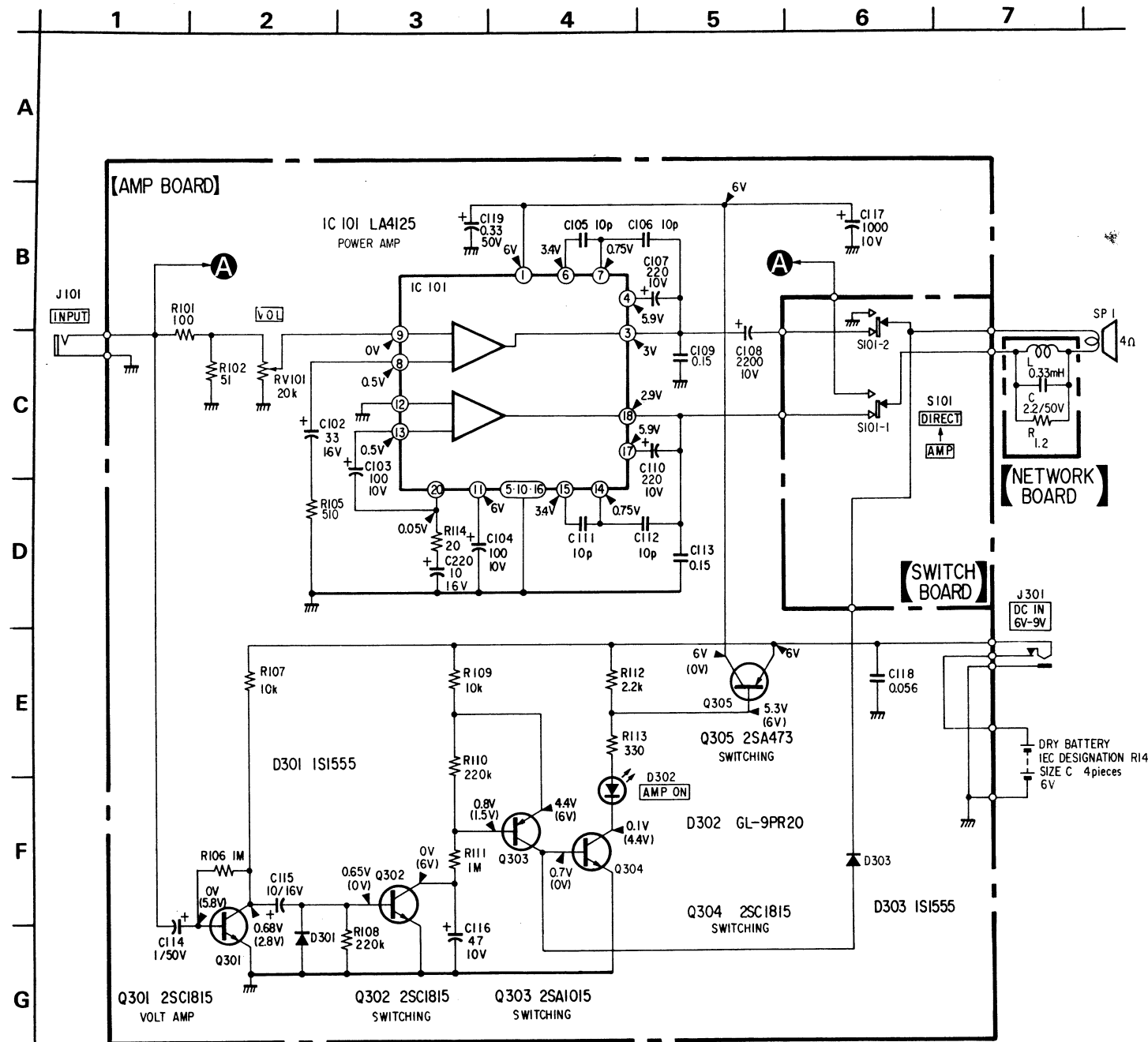
**MAGNETICALLY SHIELDED  
AMPLIFIER BUILT-IN MONITOR  
SONY®**



MOUNTING DIAGRAM



SCHEMATIC DIAGRAM



Note:

- All capacitors are in  $\mu F$  unless otherwise noted. pF:  $\mu F$  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in  $\Omega$  and  $\frac{1}{4}W$  or less unless otherwise specified.
- Switch:

Ref. No.	Switch	Position
S101	DIRECT/AMP	AMP

- Power voltage is 6 V and fed with regulated power supply battery terminal.
- Voltages are dc with respect to ground with no signal input.
- Voltage variations may be noted due to normal production tolerances.
- no mark: When VOM range set to 12 V with Q301 collector connected to D301 cathode by using lead wire.
- ( ): When disconnecting lead wire between Q301 collector and D301 cathode.

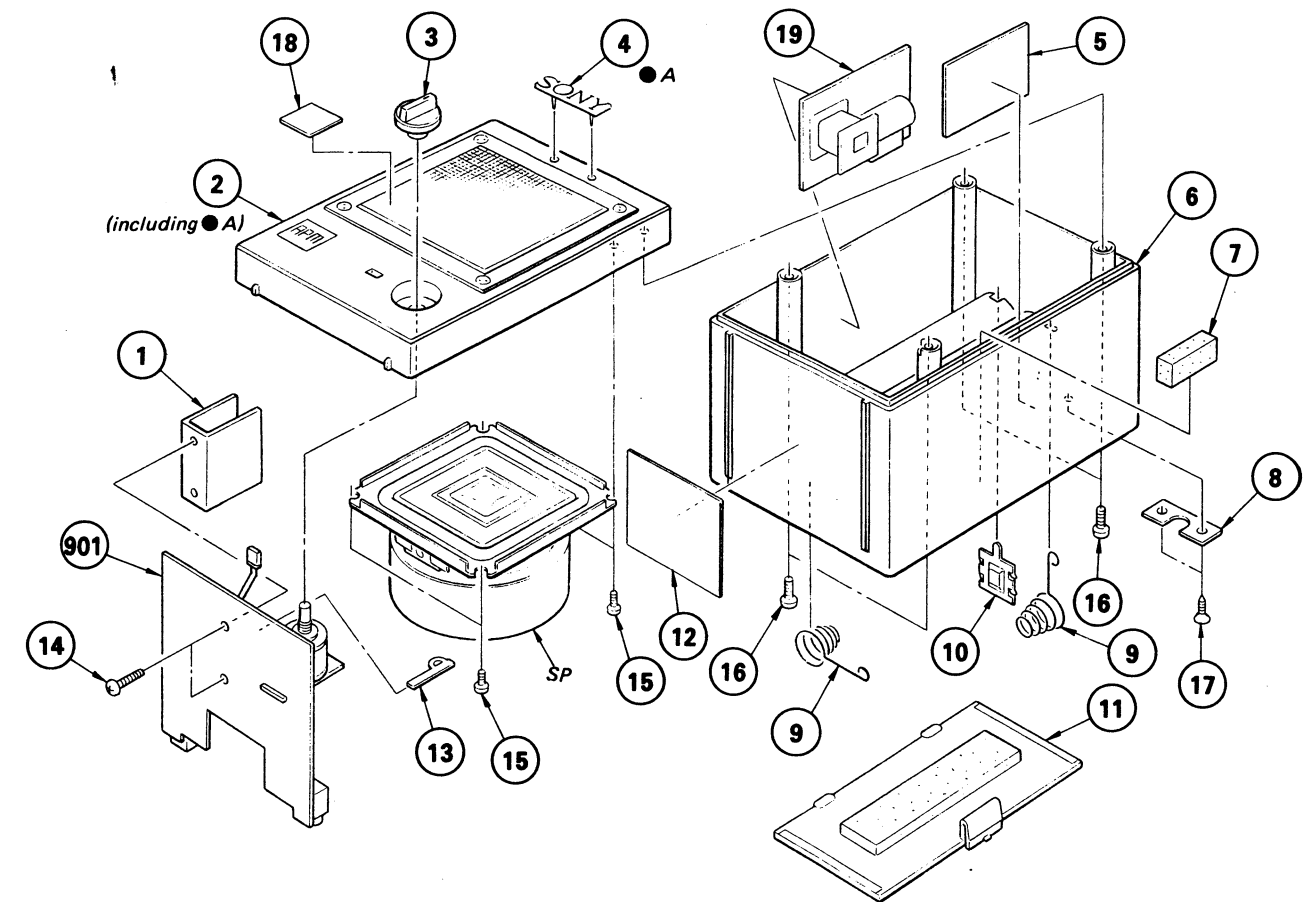
EXPLODED VIEW AND PARTS LIST

NOTE:

The mechanical parts with no reference number in the exploded views are not supplied.

Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The construction parts of an assembled part are indicated with a collation number in the remark column.



No.	Part No.	Description	REMARKS	No.	Part No.	Description	REMARKS
1	*4-907-306-01	HEAT SINK		10	3-889-721-00	TERMINAL BOARD, POSITIVE	
2	X-4907-305-1	(BLACK)...FRONT PANEL	4	11	X-4907-302-1	(BLACK)...BATTERY LID ASSY	
	X-4907-307-1	(SILVER)...FRONT PANEL	4		X-4907-303-1	(SILVER)...BATTERY LID ASSY	
3	3-317-011-11	KNOB, CONTROL		12	4-907-313-01	LABEL, MODEL NUMBER	
4	4-860-515-00	EMBLEM, SONY		13	*4-907-311-01	PLATE, GROUND	
5	*4-907-322-01	SEAL, SERVICE		14	7-685-647-21	SCREW +BVTP 3X10 TYPE2 SLIT	
6	4-907-309-11	(BLACK)...CABINET		15	7-685-134-14	SCREW +P 2.6X8 TYPE2 SLIT	
	4-907-309-21	(SILVER)...CABINET		16	7-685-147-21	SCREW +P 3X10 TYPE2 SLIT	
7	9-911-815-03	CUSHION (C)		17	7-685-335-24	SCREW +RKT 2.6X10 TYPE2 SLIT	
8	*4-907-301-01	BRACKET, WALL HOOK		18	3-703-710-01	STICKER, SONY SYMBOL (12)	
9	4-888-508-00	SPRING		19	*4-907-324-01	BOARD	
				901	*1-613-776-11	PC BOARD	